

Claims

1. A tooth implant including a threaded enossal region (1), a middle region (2) and a coronal region (3), characterized in that the enossal region (1) includes different threaded sections.
2. The tooth implant according to claim 1, characterized in that three different threaded sections are provided.
3. The tooth implant according to claim 2, characterized in that the three threaded sections each extend substantially over a third of the length of the enossal region.
4. The tooth implant according to claim 2 or 3, characterized in that an apical threaded section (4) has a high depth of thread with steep flanks, that a middle threaded section (5) is provided with a conical core and a cylindrical outer diameter envelope, and that a coronal threaded section (6) has a low depth of thread and is formed in the kind of a trapezoidal thread.
5. The tooth implant according to claim 4, characterized in that the middle threaded section (5) has a depth of thread of 60 to 80 % of the depth of thread of the apical threaded section (4).
6. The tooth implant according to any one of claims 1 to 5, characterized in that the coronal threaded section (6) has a depth of thread of 30 to 50 % of the depth of thread of the apical threaded section (4).
7. The tooth implant according to any one of claims 4 to 6, characterized in that the middle threaded section (5) has thread bridges (7) becoming wider and flutes (8) becoming

more narrow at substantially the same pitch from the apical threaded section (4) to the coronal threaded section (6).

8. The tooth implant according to claim 7, characterized in that the middle threaded section (5) includes a conical base body defined by the flutes (8).
9. The tooth implant according to any one of claims 4 to 7, characterized in that the outer diameter of the apical threaded section (4) is smaller than the outer diameter of the middle (5) and the coronal (6) threaded section.
10. The tooth implant according to any one of claims 1 to 9, characterized in that the middle region (2) of the implant includes a neck region (9) conically increasing in the course from apical to coronal.
11. The tooth implant according to claim 10, characterized in that the neck region (9) is elliptical in cross-section.
12. The tooth implant according to any one of claims 10 or 11, characterized in that the neck region (9) is provided with a multiple thread (10).
13. The tooth implant according to claim 12, characterized in that the thread (10) is respectively formed laterally at the neck region (9) and extends in the inserted implant in the approximal region to the adjacent teeth.
14. The tooth implant according to any one of claims 10 to 12, characterized in that the neck region (9) is provided with an anti-adhesive coating.

15. The tooth implant according to any one of claims 10 to 14, characterized in that a transition from the neck region (9) to the implant shoulder is formed garland-shaped.
16. The tooth implant according to claim 15, characterized in that a bevel is provided at the transition from the neck region (9) to the implant shoulder (11).
17. The tooth implant according to claim 15 or 16, characterized in that the implant shoulder (11) has a flat coating surface (12) perpendicular to the longitudinal axis of the implant.
18. The tooth implant according to any one of claims 1 to 17, characterized in that the coronal region (3) includes a conical retention plug (13).
19. The tooth implant according to any one of claims 1 to 18, characterized in that a detachable gingival sleeve (14) is arranged at the middle region (2).
20. The tooth implant according to any one of claims 18 or 19, characterized in that the retention plug (13) is formed conically and has a lower conicity in its base region (15) and a greater conicity in its head region (16).
21. The tooth implant according to any one of claims 18 to 20, characterized in that a ceramic abutment (17) is applied to the retention plug (13).
22. The tooth implant according to claim 21, characterized in that the abutment (17) has a core (18) made of densely sintered ceramics and an outer body made of porously sintered ceramics.

23. The tooth implant according to any one of claims 21 to 22, characterized in that a removable handling projection (20) is attached to the retention plug (13).
24. The tooth implant according to any one of claims 1 to 23, characterized in that at least one of the threaded sections (4 to 6) of the enossal region (1) is provided with at least one groove extending at least over a partial region of the axial length and forming a throat.
25. The tooth implant according to claim 24, characterized in that multiple grooves are provided, which are disposed offset to each other about the circumference.
26. The tooth implant according to any one of claims 24 or 25, characterized in that the depth of the groove is greater than the respective height or depth of thread, respectively.
27. A dental drill for use with a tooth implant according to any one of claims 1 to 26, comprising a shaft (21) and an operational region (22), the shape of which is adapted at least to the enossal region (1) of the tooth implant, characterized in that an application aid (23) in the form of the ceramic abutment (17) is disposed on the shaft (21) adjacent to the operational region (22).